

APPENDIX C

MATERIAL STANDARDS

(See also Appendix D for standards for tests of specific materials.)

CONCRETE

Aggregates, Concrete Specifications for.....ASTM C33-71a  
Aggregates, Lightweight for Structural  
Concrete-Specifications for.....ASTM C330-69  
Aggregates, Lightweight, for Concrete  
Masonry Units.....(See Masonry)  
Aggregates, Lightweight, for Insulating  
Concrete-Specifications for.....ASTM C332-66  
Forms for One-way Concrete Joist Construction-  
Types and Sizes of.....USDC PS 16-69  
Gypsum Concrete-Specifications for.....ASTM C317-70  
Manufacturing Reinforced Concrete Floor and  
Roof Units-Recommended Practice for.....ACI 512-67  
Masonry Units-Concrete.....(See Masonry)  
Natural Cement-Specifications for.....ASTM C10-70a  
Portland Cement-Specifications for.....ASTM C150-72  
Ready Mix Concrete-Specifications for.....ASTM C94-72  
Reinforcing.....(See Metals)  
Thin-Section Precast Concrete Construction-  
Minimum Requirements for.....ACI 525-1963  
Vermiculite Concrete-Roofs and Slabs on  
Grade, Specifications for.....ANSI A122.1-1965  
Waterproof Paper for Curing Concrete-  
Specifications for.....ASTM C171-69

INTERIOR FINISHES

Adhesives, Organic, for Installation of  
Ceramic Tile-Standard for.....ANSI A136.1-67  
Aggregates, Inorganic, for use in  
Gypsum Plaster-Specifications for.....ASTM C35-70  
Dry-Set Portland Cement Mortar-  
(For Ceramic Tile).....(See Masonry)  
Epoxy, Chemical Resistant, Water Cleanable  
Tile-Setting and Grouting-Standard  
Specifications for.....ANSI A118.3-1969  
Gypsum-Specifications for.....ASTM C22-1950  
Gypsum and Gypsum Products, Chemical Analysis  
of-Standard Methods for.....ASTM C471-72  
Gypsum Base for Veneer Plaster--Specifications  
for.....ASTM C588-68  
Gypsum Board Products and Gypsum Partition  
Tile or Block, Physical Testing of-  
Standard Methods for.....ASTM C473-70

Gypsum Lath-Specifications for.....ASTM C37-69  
 Gypsum Plasters-Specifications for.....ASTM C28-68  
 Gypsum Plasters and Gypsum Concrete, Physical  
 Testing of-Standard Methods for.....ASTM C472-73  
 Gypsum Veneer Plaster-Specifications for.....ASTM C587-68  
 Gypsum Wallboard-Specifications for.....ASTM C36-73  
 Lime Hydrated, Normal Finishing-Specifications for....ASTM C6-68  
 Lime Hydrated, Special Finishing-Specifications for..ASTM C206-68  
 Lime-Cement Stucco-Standard Specifications for...ANSI A42.5-1960  
 Quicklime and Hydrated Lime-Method of  
 Physical Testing of.....ASTM C110-71  
 Quicklime for Structural Purposes-Specifications for..ASTM C5-68  
 Tile, Ceramic-Standard Specifications for.....ANSI A137.1-67  
 Tile, Structural Clay-Specifications for.....ASTM C57-1957

MASONRY

Aggregate, Fine-Effect of Organic Impurities in,  
 on Strength of Mortar.....ASTM C87-69  
 Aggregates, Lightweight, for Concrete Masonry Units-  
 Specifications for.....ASTM C331-69  
 Aggregate for Masonry Grout-Specifications for.....ASTM C404-70  
 Aggregate for Masonry Mortar-Specifications for.....ASTM C144-70  
 Brick, Building (Solid Masonry Units Made from  
 Clay or Shale)-Specifications for.....ASTM C62-69  
 Brick, Concrete Building-Specifications for.....ASTM C55-71  
 Brick, Face, Calcium Silicate (Sand Lime Brick)-  
 Specifications for.....ASTM C73-72  
 Brick, Facing (Solid Masonry Units Made from  
 Clay or Shale)-Specifications for.....ASTM C216-71  
 Brick, Hollow (Solid Masonry Units Made from  
 Clay or Shale)-Specifications for.....ASTM C652-1970  
 Brick, Sand-Lime Building-Specifications for.....ASTM C73-72  
 Cement, Blended Hydraulic-Specifications for.....ASTM C595-1968  
 Cement, Keene's-Specifications for.....ASTM C61-1964  
 Cement, Masonry-Specifications for.....ASTM C91-71  
 Ceramic Tile (Veneers).....(See Interior Finishes)  
 Clay Facing Tile, Structural-Specifications for.....ASTM C212-70  
 Clay Load Bearing Wall Tile, Structural-  
 Specifications for.....ASTM C34-70  
 Clay Nonload Bearing Screen Tile, Structural-  
 Specification for.....ASTM C530-70  
 Clay Nonload Bearing Wall Tile, Structural-  
 Specification for.....ASTM C56-71  
 Concrete Masonry, the Design and Construction  
 of Load Bearing.....NCMA-1971  
 Concrete Masonry Units, Hollow Load Bearing-  
 Specifications for.....ASTM C90-70  
 Concrete Masonry Units, Hollow Nonload Bearing-  
 Specifications for.....ASTM C129-71  
 Concrete Masonry Units, Solid Load Bearing-  
 Specifications for.....ASTM C145-71  
 Dry-Set Portland Cement Mortar-Standard  
 Specifications for.....ANSI A118.1-72

Glazed Units-Ceramic Glazed Structural Clay  
 Facing Tile, Facing Brick, and Solid Masonry  
 Units-Specifications for.....ASTM C126-71  
 Gypsum Partition Tile and Block-  
 Specification for.....ASTM C52-72  
 Lime, Hydrated for Masonry Purposes-  
 Specification for.....ASTM C207-68  
 Limes.....(See Interior Finishes)  
 Masonry Unit, Chemical Resistant.....ASTM C279-1954  
 Mineral Fiber Block and Board Thermal  
 Insulation.....ASTM C612-1967T  
 Mortar and Grout for Reinforced Masonry-  
 Specification for.....ASTM C476-71  
 Mortar for Unit Masonry-Specification for.....ASTM C270-71  
 Portland Cement-Specification for.....(See Concrete)  
 Refractories, Castable .....ASTM C401-1968

METAL

Alloy Steel Bolts, Quenched and Tempered, for  
 Structural Steel Joints-Standard Specifications  
 for.....ASTM A490-71  
 Alloy Steel Sheets and Strip, Regular Quality  
 Hot-Rolled and Cold Rolled-Specification for.....ASTM A506-64  
 Aluminum-Alloy Bars, Rods and Wire-  
 Standard Specifications for .....ASTM B211-72  
 Aluminum-Alloy Extruded Bars, Rods, Shapes  
 and Tubes-Standard Specifications for.....ASTM B221-72  
 Aluminum-Alloy Die and Hand Forgings-  
 Standard Specifications for.....ASTM B247-73  
 Aluminum Alloy Seamless Pipe and  
 Seamless Extruded Tubing  
 Standard Specifications for.....ASTM B241-72  
 Aluminum Alloy Sheet and Plate-  
 Standard Specifications for.....ASTM B209-72a  
 Aluminum-Alloy Standard Structural Shapes,  
 Rolled or Extruded-Standard Specifications for ....ASTM B308-72  
 Aluminum-Alloy Drawn Seamless Tubes-  
 Standard Specifications for.....ASTM B210-72  
 Aluminum-Alloy Extruded Structural Pipe  
 and Tube-Standard Specifications for .....ASTM B429-72  
 Aluminum-Alloy Round Welded, Tubes-  
 Standard Specifications for .....ASTM B313-72  
 Aluminum-Alloy Rivet and Cold Heading  
 Wire and Rods-Standard Specifications for.....ASTM B316-72  
 Aluminum-Base Alloy Die Castings-Standard  
 Specifications for .....ASTM B85-73  
 Aluminum Alloy Permanent Mold Castings-  
 Standard Specifications for .....ASTM B108-72  
 Aluminum Alloy Sand Castings-Standard  
 Specifications for .....ASTM B26-72  
 Aluminum Sliding Glass Doors-Specifications for....AAMA 402.7-71  
 Aluminum Windows-Specifications for .....AAMA 302.7-71  
 Bare Mild Steel Electrodes and Fluxes for  
 Submerged Arc Welding-Specifications for.....AWS A5.17-69

Bolts, High Strength, for Structural Steel  
     Joints Including Suitable Nuts and Plain  
     Hardened Washers-Specifications for.....ASTM A325-71  
 Bolts and Studs, Quenched and Tempered Steel,  
     Specifications for.....ASTM A449-68  
 Carbon and Alloy Steel Nuts for Bolts for  
     High-Pressure and High-Temperature Service-  
     Specifications for.....ASTM A194-73  
 Carbon-Steel Castings Suitable for Fusion  
     Welding for High Temperature Service-  
     Specifications for.....ASTM A216-70A  
 Carbon Steel Nuts-Specifications for.....ASTM A563-72  
 Carbon Steel Plates of Structural Quality,  
     Low and Intermediate Tensile Strength-  
     Specifications for, (Plate 2 inches and  
     under in thickness).....ASTM A283-70a  
 Carbon Steel Strip, Cold-Rolled-  
     Specifications for.....ASTM A109-72  
 Castings, Mild-to-Medium Strength Carbon  
     Steel for General Application-  
     Specifications for.....ASTM A27-71  
 Castings, Gray Iron-Specification for.....ASTM A48-71  
 Cold-Formed Welded and Seamless Carbon  
     Steel Structural Tubing in Rounds  
     and Squares-Specifications for.....ASTM A500-72  
 Steel Castings for Structural Purposes,  
     High Strength-Specifications for.....ASTM A148-71  
 Electrodes, Low Alloy Steel Covered Arc  
     Welding-Specifications for.....AWS A5.5-69  
 Electrodes, Mild Steel Arc Welding  
     Specifications for.....AWS A5.1-69  
 Forgings, Alloy Steel for General Industrial  
     Use-Specifications for.....ASTM A237-67  
 Forgings, Carbon Steel for General Industrial  
     Use-Specifications for.....ASTM A235-67  
 General Requirements for Carbon and High  
     Strength Low Alloy Steel, Hot Rolled  
     Strip, Hot Rolled Sheets, and Cold Rolled  
     Sheets-Specifications for.....ASTM A568-71  
 High Strength, Low Alloy Structural Steel  
     with 50,000 psi minimum yield point to  
     4 inches thick-Specifications for.....ASTM A588-71  
 Hot-Formed Welded and Seamless Carbon Steel  
     Structural Tubing-Specifications for.....ASTM A501-71a  
 Hot-Formed Welded and Seamless High-Strength  
     Low-Alloy Structural Tubing-  
     Specifications for.....ASTM A618-71  
 Hot Rolled Carbon Steel Sheets and Strip,  
     Structural Quality-Specifications for.....ASTM A570-72  
 Steel Sheet, Zinc Coated (Galvanized) by  
     the Hot-Dip Process for Roofing,  
     Specification for.....ASTM A361-71

Steel, Sheet, Cold Rolled, Long Terne  
 Coated, Specification for.....ASTM A308-69

Low Carbon Steel, External and Internal  
 Threaded, Standard Fasteners-  
 Specification for.....ASTM A307-68

Mild Steel Electrodes for Flux-Cored Arc  
 Welding-Specifications for.....AWS A5.20-69

Mild Steel Electrodes for Gas Metal-Arc  
 Welding-Specifications for.....AWS A5.18-69

Pipes, Welded and Seamless Steel Pipe-  
 Specifications for.....ASTM A252-71

Pipe, Metal.....(See Plumbing and Piping)

Reinforcement, Axle-Steel Deformed Bars  
 for Concrete-Specifications for.....ASTM A617-72

Reinforcement, Deformed Billet-Steel Bars  
 for Concrete-Specifications for.....ASTM A615-72

Reinforcement, Deformed Steel Wire for  
 Concrete-Specification for.....ASTM A496-72

Reinforcement, Rail-Steel Deformed Bars  
 for Concrete-Specification for.....ASTM A616-72

Reinforcement, Steel Wire, Cold-Drawn, for  
 Concrete-Specifications for.....ASTM A82-72

Reinforcement, Steel Wire, Welded Fabric for  
 Concrete-Specifications for.....ASTM A185-72

Reinforcement, Welded Deformed Steel Wire  
 Fabric for Concrete.....ASTM A497-72

Seven-Wire Stress-Relieved Strand, Uncoated,  
 for Prestressed Concrete-Specifications for.....ASTM A416-68

Steel Drill Screw Application of Gypsum  
 Sheet Material to Light Gauge Steel Stud.....ASTM C646-72

Uncoated Stess-Relieved Wire for Prestressed  
 Concrete-Specifications for.....ASTM A421-72

Sheet Piling Steel-Specifications for.....ASTM A328-70

Steel, Cold-Rolled Sheet, Carbon Structural-  
 Specifications for.....ASTM A611-72

Steel, Hot-Rolled and Cold-Rolled Sheet and  
 Strip, High-Strength, Low-Alloy Columbium  
 and/or Vanadium-Specifications for.....ASTM A607-70

Steel, Hot-Rolled and Cold-Rolled Sheet and  
 Strip, High-Strength, Low-Alloy with  
 Improved Corrosion Resistance  
 Specifications for.....ASTM A606-71

Stainless and Heat-Resisting Chromium Steel  
 Plate, Sheet and Strip-Standard for.....ASTM A176-72

Stainless and Heat-Resisting Chromium-Nickel  
 Steel Plate, Sheet, and Strip-Standard for.....ASTM A167-70

Steel Structural Rivets-Specifications for.....ASTM A502-65

Steel Studs, Light Gauge, Runners and  
 Rigid Furring Channels, Specifications for.....ASTM C645-70

Structural Steel-Specifications for.....ASTM A36-70a

Structural Steel, High Strength-  
 Specifications for.....ASTM A440-70a

Structural Steel, High Strength Low Alloy-  
 Specifications for.....ASTM A242-70a

Structural Steel, High Strength Low Alloy  
 Columbium Vanadium-Specifications for.....ASTM A572-72  
 Structural Steel, High Strength Low Alloy  
 Manganese Vanadium-Specifications for.....ASTM A441-70a  
 Structural Steel, High Yield Strength,  
 Quenched and Tempered Alloy Steel Plate,  
 Suitable for Welding, Specifications for.....ASTM A514-70  
 Structural Steel with 42,000 psi Minimum Yield  
 Point ( $\frac{1}{2}$  in. Maximum Thickness)-  
 Specification for.....ASTM A529-72

#### ROOFING AND SIDING

Asphalt for Dampproofing and Waterproofing-  
 Specifications for.....ASTM D449-71  
 Asphalt for Use in Constructing Built-Up  
 Roof Coverings-Specifications for.....ASTM D312-71  
 Asphalt Roll Roofing Surfaced with  
 Mineral Granules-Specification for.....ASTM D249-68  
 Asphalt Roll Roofing Surfaced with Powdered  
 Talc or Mica-Specifications for.....ASTM D224-68  
 Asphalt Shingles Surfaces with Mineral  
 Granules-Specifications for.....ASTM D225-70  
 Asphalt Siding Surfaced with Mineral  
 Granules-Specifications for.....ASTM D699-70  
 Fiberboard Nail-Base Sheathing-  
 Standard Specification for.....ASTM D2277-72  
 Fiber Insulation Board, Structural-  
 -Manufacturers Standards for Fiberboard  
 Nail-Base Sheathing .....IB Spec. No. 2-72  
 -Manufacturers Standards for Insulating  
 Roof Deck.....IB Spec. No. 1-70  
 -Method of Testing (Made from Vegetable  
 Fiber).....ASTM C209-66  
 -Specifications for (Made from Vegetable  
 Fiber).....ASTM C208-66  
 Formboard, Structural Insulating (Made from  
 Vegetable Fibers)-Specification for.....ASTM C532-66  
 Gypsum Sheathing Board-Specification for.....ASTM C79-67  
 Wood Shingles (Red Cedar, Tidewater, Red  
 Cypress and California Redwood).....USDC CS 31-52

#### WOOD AND WOOD PRODUCTS

American Softwood Lumber Standard.....USDC PS20-70  
 Fireretardant Pressure Treatment, Plywood.....AWPA C27-70  
 Fireretardant Pressure Treatment,  
 Structural Lumber.....AWPA C20-70  
 Glue Laminated Structural Lumber Standards-  
 Structural Glued Laminated Southern Pine.....SPIB-65  
 Hardboard, Commercial Standard for.....USDC CS 251-63  
 Method for Establishing Structural  
 Grades of Lumber.....ASTM D245-70

Particleboard-Commercial Standard for.....USDC CS 236-66  
 Piles, Timber, Round-Specifications for.....ASTM D25-70  
 Piles, Wood Foundation, Creosotol.....AWPA C12-69  
 Plywood-Preservative Treatment for  
   Pressure Process.....AWPA C9-72  
 Preservative Treatment  
   -Of Lumber, Timber, Bridge Ties, and  
     Mine Ties (All Species)-Standards for.....AWPA C2-72  
   -Of Piles by Pressure Process-Standards for.....AWPA C3-72  
   -Of Poles by Pressure Process-Standards for.....AWPA C4-72  
   -By Pressure Process-All Timber Products-  
     Standards for.....AWPA C1-72  
 Quality Control Standards for Pressure-  
   Treated Lumber and Plywood  
   -With Creosote or Creosote Coal Tar  
     Solution (for Above Ground Use).....AWPB-LP-5-71  
   -With Creosote or Creosote Coal Tar  
     Solution (for Ground Contact).....AWPB-LP-55-71  
   -With Heavy Petroleum Solvent-Penta  
     Solution (for Above Ground Use).....AWPB-LP-7-71  
   -With Heavy Petroleum Solvent-Penta  
     Solution (for Ground Contact).....AWPB-LP-77-71  
   -With Light Petroleum Solvent-Penta  
     Solution (for above ground use).....AWPB-LP-3-71  
   -With Light Petroleum Solvent-Penta  
     Solution (for Ground Contact).....AWPB-LP-33-71  
   -With Volatile Petroleum Solvent (LPG)-  
     Penta Solution (for Above Ground Use).....AWPB-LP-4-71  
   -With Volatile Petroleum Solvent (LPG)-  
     Penta Solution (for Ground Contact).....AWPB-LP-44-71  
   -With Water-Borne Preservatives (for  
     Above Ground Use).....AWPB-LP-2-71  
   -With Water-Borne Preservatives (for  
     Ground Contact).....AWPB-LP-22-71  
 Shingles.....(See Roofing and Siding)  
 Glued Laminated Structural Lumber  
   Standards  
   -Structural Glued Laminated Members and  
     Laminations Before Gluing of Southern  
     Pine, Pacific Coast Douglas Fir and  
     Western Hemlock by Pressure Process.....AWPA C28-72  
   -Structural Glued Laminated Timber.....USDC PS 56-73  
   -Structural Glued Laminated Timber of  
     Douglas Fir, Western Larch, Southern  
     Pine and California Redwood.....AITC 117-1971  
   -U. S. Product Standard PSI-66 for  
     Softwood Plywood-Construction and  
     Industrial.....USDC-1970

UNCLASSIFIED MISCELLANEOUS

Felt-Methods of Testing.....ASTM D461-72  
 Flammability of Flexible Plastic-  
   Method of Test for.....ASTM D568-72

Flammability of Self-Supporting Plastic-	
Method of Test for.....	ASTM D635-72
Formboard, Gypsum-Specification for.....	ASTM C318-67
Insulated Metal Roof Deck Standard.....	FMED Standard 4450
Mortar, Ground Fire Clay.....	ASTM C105-1947
Perlite Loose Fill Insulation-	
Standard Specifications for.....	ASTM C549-67
Plastics-Defintions of Terms Relating to.....	ASTM D883-72
Plastics, Deformation of, Under Load-	
Method of Test for.....	ASTM D621-64
Preservatives for Wood	
-Creosote-Standards for .....	AWPA P 1-65
-Creosote, Coal Tar Solutions-Standards for.....	AWPA P 2-68
-Oil-Borne Preservative-Standards for.....	AWPA P 8-64
-Oil-Borne Solvents-Standards for.....	AWPA P 9-72
-Water-Borne Preservatives-Standards for.....	AWPA P 5-72
Thickness of Solid Electrical Insulation-	
Method of Test for.....	ASTM D374-73
Vermiculite Loose Fill Insulation-	
Standard Specifications for.....	ASTM C516-67



## APPENDIX D

### STRUCTURAL UNIT TEST STANDARDS

(See also appendices B and C for engineering practice standards and material standards which contain unit test methods.)

#### CONCRETE

Coarse Aggregates, Resistance to Abrasion of Small Size, by use of the Los Angeles Abrasion Machine-Test for.....	ASTM C131-69
Fine and Coarse Aggregates Sieve or Screen Analysis of-Test of (A 37.8-1967).....	ASTM C136-71
Concrete, Obtaining and Testing Drilled Cores and Sawed Beams of.....	ASTM C42-68
Concrete Test	
-Compression and Flexure Test Specimens in the Field, Making and Curing.....	ASTM C31-1966
-Sampling Fresh.....	ASTM C172-1968
-Specimens in the Laboratory-Making and Curing.....	ASTM C192-69
Concrete, Molded Cylinders-Test for Compressive Strength of.....	ASTM C39-72
Lightweight Insulating Concrete, Compressive Strength-Test for.....	ASTM C495-69
Concrete Masonry Units-Sampling and Testing (A 84.1-1967).....	ASTM C140-70
Concrete Masonry Units, Hollow Load Bearing- Specifications for.....	ASTM C90-70
Concrete Masonry Units, Solid Load Bearing- Specifications for (A 81.1-1967).....	ASTM C145-71
Concrete, Hardened Portland Cement-Test for Cement Content of (A 1.22-1967).....	ASTM C85-66
Concrete, Portland Cement-Test for Slump of.....	ASTM C143-1966
Concrete, Ready Mixed-Specifications for (A 37.69-1967).....	ASTM C94-71
Sands for Concrete-Test for Organic Impurities on.....	ASTM C40-72

#### INTERIOR FINISHES

Gypsum and Gypsum Products, Chemical Analysis of- Standard Methods for.....	ASTM C471-72
Gypsum Board Products and Gypsum Partition Tile or Block, Physical Testing of-Standard Methods for..	ASTM C473-68
Gypsum Concrete-Specifications for.....	ASTM C317-70
Gypsum Formboard-Specifications for.....	ASTM C318-67
Gypsum Lath-Specifications for.....	ASTM C37-69
Gypsum Plasters-Specifications for.....	ASTM C28-68
Gypsum Plasters and Gypsum Concrete, Physical Testing of-Standard Methods for.....	ASTM C472-70
Gypsum Sheathing Board-Specifications for.....	ASTM C79-67

Gypsum Wallboard-Specifications for.....ASTM C36-70  
 Insulating Board, (Made from Vegetable fiber)  
 -Methods of Testing.....ASTM C209-66  
 -Specifications for.....ASTM C208-66  
 Lime.....(See Masonry)

MASONRY

Aggregate for Masonry Mortar-Specifications for.....ASTM C144-70  
 Brick, Concrete Building-Specifications for.....ASTM C55-71  
 Brick-Methods of Testing and Sampling.....ASTM C67-66  
 Cement, Masonry-Specifications for.....ASTM C91-71  
 Ceramic Tile (Veneers) .....(See Interior Finishes)  
 Chemical Analysis of Limestone, Quicklime and  
 Hydrated Lime.....ASTM C25-72  
 Concrete Masonry Units.....(See Concrete)  
 Glazed Units-Ceramic Glazed Structural Clay  
 Facing Tile, Facing Bricks and Solid Masonry  
 Units-Specifications for.....ASTM C126-71  
 Lime and Limestone Products-Methods of Sampling,  
 Inspection, Packing and Marking of.....ASTM C50-68  
 Lime, Hydrated and Quick-Methods of Physical  
 Testing of.....ASTM C110-71  
 Lime, Hydraulic Hydrated for Structural Purposes-  
 Specifications for.....ASTM C141-67  
 Mortars, Hydraulic Cement-Method of Test for  
 Compressive Strength of (Using 2 inch cube  
 Specimens)..... ASTM C109-70T  
 Mortars, Hydraulic Cement-Method of Test for  
 Tensile, Strength of.....ASTM C19--72  
 Stone, Natural Building-Methods of Test for  
 Absorption and Bulk Specific Gravity of.....ASTM C97-70  
 Stone, Natural Building-Method of Test for  
 Compressive Strength of.....ASTM C170-70  
 Stone, Natural Building-Methods of Test for  
 Modulus of Ruptures of.....ASTM C99-70

METALS

Cast Iron-Method of Testing Compression of.....ASTM A256-46  
 Metallic Materials-Methods of Tension Testing of.....ASTM E8-69

UNCLASSIFIED MISCELLANEOUS

Cement, Hydraulic-Methods of Sampling.....ASTM C183-71  
 Cement, Natural-Specifications for.....ASTM C10-70a  
 Cement, Portland-Specifications for.....ASTM C150-72  
 Clay Pipe, Testing .....ASTM C301-72  
 Plastics Under Load-Method of Test for Deforma-  
 tion of.....ASTM D621-64  
 Tile, Clay Drain-Specifications for.....ASTM C4-70

WOOD AND WOOD PRODUCTS

Evaluating the Properties of Wood-Base Fiber  
and Particle Panel Materials.....ASTM D1037-72  
Timber, Small Clear Specimens-Method of Testing.....ASTM D143-72  
Timbers in Structural Sizes-Methods of Static  
Tests of.....ASTM D198-67  
Veneer, Plywood and Other Glued Veneer Construction-  
Methods of Testing.....ASTM D805-72

APPENDIX E

STRUCTURAL ASSEMBLY TEST STANDARDS

(See also appendix D for standards for test of unit materials.)

Metal Fasteners in Wood, Testing of.....ASTM D1761-68  
Heavy Truss Assemblies, Testing.....ASTM E73-70  
Panels for Building Construction-Methods  
of Conducting Strength Test of.....ASTM E72-68

APPENDIX F

DURABILITY TEST STANDARDS

(See also appendices C, D and E for tests of individual materials or unit assemblies.)

CONCRETE AND CONCRETE AGGREGATE

- Concrete, Aggregate-Method of Tests for  
Voids in. . . . .ASTM C30-70
- Concrete, Air Content of Freshly Mixed, by  
the Pressure Method-Method of Test for. . . . .ASTM C231-72
- Concrete, Weight per Cubic Foot, Yield and Air  
Content of-Method of Test for. . . . .ASTM C138-71T
- Organic Impurities in Sand for Concrete-  
Method of Test for. . . . .ASTM C40-72

MASONRY AND MASONRY PRODUCTS

- Ceramic Glazed Structural Clay Facing Tile,  
Facing Brick and Solid Masonry Units-  
Specifications for (Autoclave Test). . . . .ASTM C126-71
- Freezing and Thawing Tests (See Specifications  
for Materials)  
-Bricks-Methods of Sampling and Testing. . . . .ASTM C67-66
- Drain Tile-Specifications for. . . . .ASTM C4-70

PLASTICS

- Water Absorption of Plastics-Methods of  
Test for . . . . .ASTM D570-72

ROOFING AND SIDING

- Asphalt Roll Roofing, Cap Sheets, and Shingles-  
Methods of Testing. . . . .ASTM D228-69
- Bituminous Materials, Accelerated Test of  
Weathering-Recommended Practice for. . . . .ASTM D529-73
- Felted and Woven Fabrics Saturated with  
Bituminous Substance for Use in  
Waterproofing and Roofing-Methods of  
Sampling and Testing. . . . .ASTM D146-72

UNCLASSIFIED MISCELLANEOUS

Fibre Building Boards-Method of  
Accelerated Aging. . . . .ASTM D1037-72  
Gypsum and Gypsum Products, Chemical Analysis of-  
Standard Methods for. . . . .ASTM C471-72  
Gypsum Board Products and Gypsum Partition  
Tile or Block, Physical Testing of-  
Standard Methods of. . . . .ASTM C473-68  
Gypsum Plasters and Gypsum Concrete, Physical  
Testing of-Standard Methods for. . . . .ASTM C472-70

## APPENDIX G

### FIRE TEST AND FLAME SPREAD TEST STANDARDS

#### COMBUSTIBLE OR NONCOMBUSTIBLE PROPERTIES

Fire Hazard Classification of Building Materials-Test Method for.....ULI Standard Test Method Subject 723-1960  
Fireretardant Treatments of Building Materials.....NFIPA 703-1961  
Flameresistant Textiles and Films, Standard Method of Tests for.....NFIPA 701-1969  
Noncombustibility of Elementary Materials-Method of Test for Determining.....ASTM E136-65  
Plastics-Standard Method of Test for Measuring the Density of Smoke from the Burning or Decomposition of.....ASTM D2843-1970  
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- Signaling Systems, Central Station Protective--
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  - other than Residence Type.....NFIPA 90A-1973
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- Doors, Tin-Clad Fire.....ULI 10(a)-68
- Dust Explosion Prevention.....(See App. B)
- Fire Dampers.....ULI Standard 555-1970
- Fire Doors and Windows--Standard for.....NFIPA 80-1973
- Fire-resistance Ratings.....AIA-1968
- Hardware, Sliding, for Standard Horizontally Mounted
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  - Property Approval Guide 1973.....FMED-73

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- Carbon Dioxide Extinguishing Systems.....NFIPA 12-1973
- Extinguishers, Portable Fire--Installation.....NFIPA 10-1973
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- Private Fire Brigades--Organization, Training and
  - Equipment of.....NFIPA 27-1967
- Pumps, Centrifugal Fire-Installation of.....NFIPA 20-1972
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- Standpipe and Hose Systems.....NFIPA 14-1973
- Valves Controlling Water Supplies for Fire Protection--
  - Supervision of.....NFIPA 26-58
- Water Tanks for Private Fire Protection.....NFIPA 22-1971
- Water Spray Systems.....NFIPA 15-73

APPENDIX I

UNIT DESIGN DEAD LOADS FOR STRUCTURAL DESIGN PURPOSES

WALLS AND PARTITIONS (UNPLASTERED)

	Pounds per Square Foot
12 inch common brick.....	120
12 " pressed brick.....	130
12 " sand-lime brick.....	105
12 " hollow concrete block--Stone Aggregate.....	74
Lightweight.....	55
10 " hollow concrete block--Stone Aggregate.....	62
Lightweight.....	46
8 " hollow concrete block--Stone Aggregate.....	50
Lightweight.....	36
6 " hollow concrete block--Stone Aggregate.....	42
Lightweight.....	36
4 " hollow concrete block--Stone Aggregate.....	27
Lightweight.....	20
12 " solid concrete block--Stone Aggregate.....	108
Lightweight.....	72
10 " solid concrete block--Stone Aggregate.....	84
Lightweight.....	62
8 " solid concrete block--Stone Aggregate.....	67
Lightweight.....	48
6 " solid concrete block--Stone Aggregate.....	50
Lightweight.....	37
4 " solid concrete block--Stone Aggregate.....	45
Lightweight.....	34
12 " combination brick and clay tile.....	80
8 " " " " " " ".....	60
12 " combination brick and concrete block.....	90
8 " " " " " " ".....	72
12 inch load bearing clay tile.....	60
8 " " " " " ".....	40
6 " " " " " ".....	36
4 " " " " " ".....	24
10 " non-load bearing clay tile.....	40
8 " " " " " ".....	36
6 " " " " " ".....	30
4 " " " " " ".....	20
3 " " " " " ".....	18
2 " " " " " ".....	11
8 " non-load bearing hollow concrete block.....	40
6 " " " " " ".....	30
4 " " " " " ".....	20
T.C. 1½ inch split terra cotta furring.....	8
2 inch split terra cotta furring.....	10
3 " " " " " ".....	12
6 " hollow gypsum block.....	24
5 " " " " ".....	18
4 " " " " ".....	15
3 " " " " ".....	10



	Pounds per Square Foot
4 inch solid gypsum block.....	24
3 " " " " .....	18
2 " " " " .....	12
4 " glass block.....	18

	Pounds per Cubic Foot
Cast stone solid.....	144
Granite ashlar.....	168
Limestone ashlar.....	168
Marble ashlar.....	168
Sandstone ashlar.....	156
Rubble stone masonry.....	156
Terra cotta architectural (filled).....	120
Terra cotta architectutral (unfilled).....	72
Concrete, stone (plain).....	144
Concrete, stone (reinforced).....	150
Concrete, cinder.....	108
Fill, cinder.....	60
Earth (dry).....	96
Earth (damp).....	108
Earth (wet).....	120
Cork.....	15
Timber, Ash.....	40
Timber, Douglas Fir.....	36
Timber, Cypress.....	30
Timber, Hemlock.....	30
Timber, Oak.....	48
Southern Pine, Short Leaf.....	36
Southern Pine, Long Leaf.....	48
Redwood.....	28
Spruce.....	30

#### PLASTER WORK

	Pounds per Square Foot
Gypsum (one side).....	5
Cement (one side).....	10
Gypsum on wood lath.....	8
Gypsum on metal lath.....	8
Gypsum on plaster board or fiber board.....	8
Cement on wood lath.....	10
Cement on metal lath.....	10

#### SUSPENDED CEILINGS

	Pounds per Square Foot
Cement on wood lath.....	12
Cement on metal lath.....	15
Gypsum on wood or metal lath.....	10

#### LATH AND PLASTER PARTITIONS

	Pounds per Square Foot
2 inch solid cement on metal lath.....	25
2 " solid gypsum on metal lath.....	18
2 " " " on gypsum lath.....	18
2 " metal studs gypsum & metal lath both sides.....	18
3 " " " " " " " " " " .....	19

Pounds per Square Foot

4 inch metal studs gypsum & metal lath both sides.....	20
6 inch wood studs plaster and wool lath, both sides.....	18
6 " " " " " metal lath, both sides.....	18
6 " " " " " plaster boards, both sides.....	18
6 " " " unplastered gypsum board, both sides (dry wall).....	10

FLOOR AND ROOF CONSTRUCTION

Pounds per Square Foot

Cinder fill per inch depth.....	5
Cinder concrete per inch depth.....	9
Stone concrete per inch depth.....	12
Floor finish tile per inch depth.....	12
Cement finish per inch depth.....	12
Gypsum slabs per inch depth.....	4
Precast concrete plank per inch depth (as determined by test)	
Hardwood flooring per inch depth.....	4
Underflooring per inch depth.....	3
Linoleum.....	2
Asphalt tile.....	2

ROOFS AND ROOFING

Pounds per square Foot

Metal Skylights.....	10
3-ply roofing.....	4
4 " " .....	5
5 " " .....	6
Wood sheathing (1").....	3
Plywood sheathing (5/16").....	1
Corrugated iron roofing.....	3
Formed steel decking.....	3
Sheet lead.....	3
Slate tile roofing.....	10
Cement tile.....	16
Spanish tile.....	20
Shingles, asbestos.....	6
Shingles, asphalt.....	6
Shingles, wood.....	6

## APPENDIX J

### UNIT WORKING STRESSES FOR ORDINARY MATERIALS

Unless otherwise specified herein, the allowable working stresses for ordinary materials, as defined in sections 701 and 722, shall be reduced ten (10) percent below the recommended values of the accepted engineering standards listed in the reference standards of article 8. When the structural material is identified in regard to manufacture and grade and the identification is accompanied by satisfactory mill tests or the strength and stress grade of the materials are otherwise confirmed to the satisfaction of the building official, the allowable working stresses may be increased to comply with the accepted engineering standards.

#### J-1 MASONRY STRESSES

J-1-A MORTAR FOR UNIT MASONRY: Mortar for unit masonry shall comply with either the proportion specifications as set out in section 816.2, or shall meet the property specifications of the accepted engineering standard listed in the reference standards of article 8. Unless laboratory data are presented to show that the mortar meets the requirements of the property specifications, the proportion specifications shall govern.

J-1-B COMPRESSIVE STRESSES: Except as permitted in other sections of the Basic Code, the compressive stresses in masonry shall not exceed the values as shown in table J-1.

J-1-C SHEAR AND TENSILE STRESSES: Except as permitted in other sections of the Basic Code, the allowable shear or tensile stresses in masonry shall not exceed the values permitted in the accepted engineering practice standards listed in the reference standards of article 8.

TABLE J-1 ALLOWABLE COMPRESSIVE STRESSES GROSS CROSS-SECTIONAL AREA  
(EXCEPT AS NOTED)

TYPE OF MASONRY AND GRADE OF MASONRY UNIT (PSI GROSS AREA)	TYPE OF MORTAR			
	M	S	N	O
	psi	psi	psi	psi
Solid masonry of brick and other solid units of clay or shale; sand- lime or concrete:				
8000 plus psi	400	350	300	200
from 4500 to 8000 psi	250	225	200	150
from 2500 to 4500 psi	175	160	140	100
from 1500 to 2500 psi	125	115	100	75
Grouted masonry of solid masonry units:				
from 4500 to 8000 psi	350	275	200	-
from 2500 to 4500 psi	275	215	155	-
from 1500 to 2500 psi	225	175	125	-
Solid masonry of solid concrete masonry units:				
1800 plus psi	175	160	140	100
from 1200 to 1800 psi	125	115	100	75
Masonry of hollow units	85	75	70	-
Hollow walls (cavity or masonry bonded) <sup>1</sup>				
Solid masonry units				
2500 plus psi	140	130	110	-
from 1500 to 2500 psi	100	90	80	-
Hollow masonry units				
	70	60	55	-
Stone ashlar masonry				
Granite	800	720	640	500
Limestone or marble	500	450	400	325
Sandstone or cast stone	400	360	320	250
Rubble stone, coursed, rough or random	140	120	100	80

Note 1: On gross cross-sectional area of wall minus area of cavity between wythes. The allowable comprehensive stresses for cavity walls are based upon the assumption that the floor loads bear upon but one (1) of the two (2) wythes. Where hollow walls are loaded concentrically, the allowable stresses may be increased by twenty-five (25) percent.

## J-2 REINFORCED CONCRETE STRESSES

The allowable working stresses for ordinary materials shall be based on the following proportions (see table J-2) by dry volumetric measurement and maximum water content per sack of cement in accordance with the standard requirements for reinforced concrete specified in the reference standards of article 8 subject to the ten (10) percent reduction prescribed for ordinary materials.

## J-3 REINFORCED GYPSUM CONCRETE STRESSES

When ordinary materials are used, the allowable working stresses shall be based on the following proportions, measured dry by weight with sufficient water to make a plastic mix that will fill the forms: one hundred (100) percent neat calcined gypsum; ninety-seven (97) percent gypsum and three (3) percent wood chips, shavings or fibers; and eighty-seven and five tenths (87.5) percent gypsum and twelve and five tenths (12.5) percent wood chips, shavings or fibers; with ultimate compressive strengths of eighteen hundred (1,800), one thousand (1000) and five hundred (500) pounds per square inch, respectively.

The working stresses shall not exceed the values prescribed in the standard for reinforced gypsum concrete listed in the reference standards of article 8 subject to the ten (10) percent reduction prescribed for ordinary materials.

## J-4 STEEL REINFORCEMENT STRESSES

The allowable working stresses for reinforcement specified in the standard requirements for reinforced concrete listed in the reference standards of article 8 shall be used in all reinforced construction, including reinforced concrete, reinforced gypsum concrete and all forms of reinforced masonry subject to the ten (10) percent reduction specified for ordinary, unidentified materials.

## J-5 STRUCTURAL STEEL STRESSES

When ordinary materials which are not identified as to manufacture and grade are used, the allowable working stresses specified in the standard for design, fabrication and erection of structural steel listed in the reference standards of article 8 shall be reduced ten (10) percent.

TABLES J-2 MAXIMUM WATER-CEMENT RATIOS AND MINIMUM CEMENT CONTENTS

SPECIFIED COMPRESSIVE STRENGTH $f_c$ (PSI)	MINIMUM SACKS OF CEMENT PER CUBIC YARD OF CONCRETE	MAXIMUM PERMISSIBLE WATER-CEMENT RATIOS			
		NON-AIR-ENTRAINED CONCRETE		AIR-ENTRAINED CONCRETE	
		Absolute ratio by weight	U.S. Gal. per 94 lb. bag of cement	Absolute ratio by weight	U.S. Gal. per 94 lb. bag of cement
2500	5	0.65	7.3	0.54	6.1
3000	5½	0.58	6.6	0.46	5.2
3500	6	0.51	5.8	0.40	4.5

Note 1: 28-day strengths for cements meeting strength limits of ASTM C150, type I, IA, II OR IIA and 7-day strengths for type III and IIIA.

J-6 CAST IRON STRESSES

	Maximum stress in pounds per square inch
Tension .....	3,000
Extreme Tension (Fiber Stress in Bending) .....	3,000
Extreme Compression (Fiber Stress in Bending) ..	16,000
Shear .....	3,000
Column Compression .....	9,000 minus $40 \frac{l}{r}$

Ratio  $\frac{l}{r}$  not to exceed seventy (70)

J-7 COLD FORMED STEEL CONSTRUCTION STRESSES

When ordinary materials which are not identified as to manufacture and grade are used, the allowable working stresses specified in the standard for the Design, Fabrication and Erection of Cold-Formed Structural Steel listed in the reference standards of article 8, shall be reduced ten (10) percent.

J-8 LUMBER STRESSES

When the grade of lumber is not identified as provided in section 722 for controlled materials, the maximum allowable working stresses for the species of lumber used shall be determined in accordance with the principles for stress grade lumber as set forth in the National Design Specification for Stress-Grade Lumber and Its Fastenings, listed in the reference standards of article 8.

APPENDIX K

SPECIALIZED CODES

Executive Office of Public Safety  
Department of Public Safety  
BOARD OF FIRE PREVENTION REGULATIONS

- FPR-2 Rules and Regulations Governing Dry-Cleaning and Dry-Dyeing and the Keeping, Storage and Use of Cleaning and Dyeing Fluid in Connection Therewith
- FPR-3 Rules and Regulations Governing the Construction, Installation and Operation of Oil Burning Equipment and the Keeping, Storage and Use of Fuel Oil or Other Inflammable Liquid Products used in Connection Therewith
- FPR-4 Rules and Regulations Governing the Construction and Maintenance of Buildings or Other Structures Used as Garages, and the Related Storage, Keeping and Use of Gasoline.
- FPR-5 Rules and Regulations Governing the Construction, Location, Installation and Operation of Liquefied Petroleum Gas Systems, Gas Piping and Appliance Installations in Buildings
- FPR-6 Rules and Regulations Governing the Manufacturing and Handling of Plastics
- FPR-8 Rules and Regulations Governing Construction, Location, Use and Maintenance of Tanks and Containers
- FPR-9 Rules and Regulations for the Purpose of remedying any Condition Found to Exist in or about any Building or Other Premises or on any Ship or Vessel in Respect to Fires, the Prevention of Fire and Fire Hazards
- FPR-11 Massachusetts State Electrical Code



FPR-13 Rules and Regulations Governing the Keeping, Storage, Manufacture or Sale in Limited Quantities of Flammable Fluids, Solids or Gases

BOARD OF BOILER RULES

- BLR-1 Part I of Steam Boiler Rules
- BLR-1-A Part I-A of Steam Boiler Rules, Atomic Energy Installations
- BLR-2 Part II of Steam Boiler Rules, Power and Miniature Class
- BLR-3 Low Pressure Steam-Heating Boilers
- BLR-4 Part IV - Steam Boiler Rules
- BLR-5 Part I - Air Tank Regulations, Installation and Inspection
- BLR-6 Part II - Air Tank Regulations, Installation and Inspection
- BLR-7 Refrigeration and Air Conditioning
- BLR-8 Material Specifications
- BLR-9 Welding Specifications
- BLR-11 Fiberglass-Reinforced Plastic Pressure Vessels

BOARD OF ELEVATOR REGULATIONS

- ELV-1 Elevator and Escalator Regulations
- ELV-2 Elevator, Dumbwaiter, Escalator, and Moving Walk Regulations

BOARD TO FACILITATE THE USE OF PUBLIC BUILDINGS BY THE PHYSICALLY HANDICAPPED

- PHR-1 Rules and Regulations of the Board to Facilitate the Use of Public Buildings by the Physically Handicapped

Executive Office of Consumer Affairs  
Department of Public Utilities  
GAS REGULATORY BOARD

Massachusetts Code for Installation of Gas  
Appliances and Gas Piping

Division of Registration  
BOARD OF STATE EXAMINERS OF PLUMBERS

Massachusetts State Plumbing Code

Executive Office of Human Services  
Department of Public Health  
DIVISION OF ENVIRONMENTAL HEALTH

The State Sanitary Code

- ARTICLE I General Application and Administration
- ARTICLE II Minimum Standards of Fitness for Human Habitation
- ARTICLE III Housing and Sanitation Standards for Farm Labor Camps
- ARTICLE IV Sanitation Standards for Recreational Camps for Children
- ARTICLE VI Minimum Standards for Swimming Pools
- ARTICLE VIII Minimum Standards for Developed Family Type Camp Grounds
- ARTICLE X Minimum Sanitation Standards for Food Service Establishments

DIVISION OF HEALTH CARE AND STANDARDS

Designer's Guide (Bureau of Planning and Construction)

Licensure Rules and Regulations for Hospitals in Massachusetts, 1971

Intensive Care Unit Amendment, May 26, 1972

Rules and Regulations for the Licensure of Dispensaries and Clinics, 1964

Rules and Regulations for General Standards of Construction-Long Term Care Facilities in Massachusetts, September 29, 1972

Executive Office of Manpower Affairs  
Department of Labor and Industries  
DIVISION OF INDUSTRIAL SAFETY

- |                            |   |
|----------------------------|---|
| Industrial Bulletin No. 12 | Rules and Regulations<br>for Prevention of<br>Accidents on Construction<br>Operations     |
| Industrial Bulletin No. 13 | Revised Rules and Regulations<br>and Recommendations Pertaining<br>to Structural Painting |
| Industrial Bulletin No. 18 | Lighting Code for Factories,<br>Workshops, Manufacturing,<br>Mercantile Establishments    |

Executive Office of Environmental Affairs  
Outdoor Advertising Division  
OUTDOOR ADVERTISING BOARD

Rules and Regulations for the Control and Restriction  
of Billboards, Signs, and other Advertising Devices,  
October 1, 1973

APPENDIX L

LIST OF AGENCIES AND DEPARTMENTS ON THE TECHNICAL CODE COUNCIL

Board to Facilitate the Use of Public Buildings by the  
Physically Handicapped  
Department of Public Safety  
1010 Commonwealth Avenue  
Boston, MA 02215  
Mr. Robert Lynch, Chairman . . . . . (617) 566-4500

Board of Boiler Rules  
Department of Public Safety  
1010 Commonwealth Avenue  
Boston, MA 02215  
Mr. John K. Olsen, Supervising District  
Engineering Inspector. . . . . (617) 566-4500

Board of Elevator Regulations  
Department of Public Safety  
1010 Commonwealth Avenue  
Boston, MA 02215  
Mr. Adam Strachan, Chairman. . . . . (617) 566-4500

Board of Fire Prevention Regulations  
Department of Public Safety  
1010 Commonwealth Avenue  
Boston, MA 02215  
Mr. Samuel Gronich, Chairman . . . . . (617) 566-4500

Board of Schoolhouse Structural Standards  
Department of Public Safety  
1010 Commonwealth Avenue  
Boston, MA 02215  
Mr. Francis S. Harvey, Acting Chairman . . . (617) 566-4500

Board of State Examiners of Electricians  
Division of Registration  
100 Cambridge Street  
Boston, MA 02202  
Mr. John F. Cullen, Executive Secretary. . . (617) 727-3050

Board of State Examiners of Plumbers  
Division of Registration  
100 Cambridge Street  
Boston, MA 02202  
Mr. Irving J. Risi, Executive Secretary. . . (617) 727-3046

Bureau of Community Sanitation  
Department of Public Health  
600 Washington Street  
Boston, MA 02100

Mr. Harold Rose, Senior Sanitary Engineer. . (617) 727-2656

Bureau of Engineering and Construction  
Department of Public Health  
80 Boylston Street  
Boston, MA 02116

Mr. Richard Knapp, Director. . . . . (617) 727-8985

Division of Environmental Health  
Department of Public Health  
600 Washington Street  
Boston, MA 02100

Mr. John C. Collins, Director. . . . . (617) 727-2690

Division of Health Care Standards  
Department of Public Health  
80 Boylston Street  
Boston, MA 02116

Dr. Harvey Remmer, Acting Director . . . . . (617) 727-7836

Division of Industrial Safety  
Department of Labor and Industries  
100 Cambridge Street  
Boston, MA 02202

Mr. Everett L. Grady, Director . . . . . (617) 727-3567

Division of Inspection  
Department of Public Safety  
1010 Commonwealth Avenue  
Boston, MA 02215

Mr. John R. Loynd, Acting Chief of  
Inspections. . . . . (617) 727-5152

Division of Outdoor Advertising  
Executive Office of Environmental Affairs  
80 Boylston Street  
Boston, MA 02116

Mr. Peter B. Bronson, Acting  
Executive Director . . . . . (617) 426-0708

Engineering and Maintenance  
Department of Mental Health  
190 Portland Street  
Boston, MA 02114

Mr. James Kerr, Director . . . . . (617) 727-5647

Gas Regulatory Board  
Department of Public Utilities  
100 Cambridge Street  
Boston, MA 02202

Mr. George Coogan, Chairman. . . . .(617) 727-3539

Mobile Home Commission  
1153 Boston Road  
Springfield, MA 01119

Mr. Frank C. Gotta, Chairman . . . . .(413) 783-6114

Office of the State Fire Marshal  
Department of Public Safety  
1010 Commonwealth Avenue  
Boston, MA 02215

Mr. Joseph G. Sneider, State Fire Marshal . .(617) 566-4500

State Building Code Commission  
Department of Community Affairs  
141 Milk Street  
Boston, MA 02109

Mr. Charles J. Dinezio,  
Executive Secretary. . . . .(617) 727-6916

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